

# INFORMATION SHEET FOR AIR CONDITIONERS, EXCEPT DOUBLE DUCTS AND SINGLE DUCTS<sup>(5)</sup>

As by Comission Communication in the framework of ecodesign requirements for air conditioners and comfort fans (EU Regulation no. 206/2012) and of energy labelling of air conditioners (EU Regulation no. 626/2011)

#### MODEL : ECOLIGHT PLUS 18000 UE / ECOLIGHT PLUS 18000 UI

	pplies			If information applies to heating: h	eating season to	which information	n relates.	
Cooling		Y		Heating (Average)(-10°C)			Y	
Heating		Y		Heating (Warmer)(+2°C) Heating (Colder)(-22°C)			Y	
	Ν							
ltem	symbol	value	unit	Item	symbol	value	unit	
Design load				Seasonal efficiency				
Cooling	Pdesignc	4,6	kW	Cooling	SEER	6,4	-	
Heating (Average)(-10°C)	Pdesignh	3,7	kW	Heating (Average)(-10°C)	SCOP (A)	4,0	-	
leating (Warmer)(+2°C)	Pdesignh	3,6	kW	Heating (Warmer)(+2°C)	SCOP (W)	5,1	-	
leating (Colder)(-22°C)	Pdesignh	-	kW	Heating (Colder)(-22°C)	SCOP (C)	-	-	
	Fuesigiiii	-	K V V		300F (C)	-	-	
eclared capacity (*) for cooling, emperature Tj	at indoor temperatu	re 27(19)°C and outd	oor	Declared Energy efficiency ratio (* outdoor temperature Tj	) for cooling, at in	door temperature	27(19)°C and	
i = 35°C	Pdc	4,61	kW	Tj = 35°C	EERd	3,24	-	
i = 30°C	Pdc	3,30	kW	Tj = 30°C	EERd	4,83	-	
j = 25°C	Pdc	2,14	kW	Tj = 25°C	EERd	7,52	-	
j = 20°C	Pdc	1,25	kW	Tj = 20°C	EERd	11,22	-	
Declared capacity (*) for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				Declared Coefficient of Performance (*) for heating / Average season, at indoor temperature 20°C and outdoor temperature Tj				
j = -7°C	Pdh	3,34	kW	Tj = -7°C	COPd	2,97	-	
j = 2°C	Pdh	1,99	kW	Tj = 2°C	COPd	4,08	-	
j = 7°C	Pdh	1,32	kW	Tj = 7°C	COPd	4,67	-	
j = 12°C	Pdh	0,95	kW	Tj = 12°C	COPd	5,16	-	
j = bivalent temperature	Pdh	3,70	kW	Tj = bivalent temperature	COPd	2,32	-	
j = operating limit temperature	Pdh	3,34	kW	Tj = operating limit temperature	COPd	2,97	-	
Declared capacity (*) for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				Declared Coefficient of Performance (*) for heating / Warmer season, at indoor temperature 20°C and outdoor temperature Tj				
ï = 2°C	Pdh	3,73	kW	Tj = 2°C	COPd	2,61	-	
i = 7°C	Pdh	2,31	kW	Tj = 7°C	COPd	5,08	-	
= 12°C	Pdh	1,08	kW	Tj = 12°C	COPd	5,87	-	
= bivalent temperature	Pdh	3,73	kW	Tj = bivalent temperature	COPd	2,61	-	
j = operating limit temperature	Pdh	3,73	kW	Tj = operating limit temperature	COPd	2,61	-	
ij = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-	
j = 2°C	Pdh	-	kW	Tj = 2°C	COPd	-	-	
j = 7°C j = 12°C	Pdh	-	kW	Tj = 7°C	COPd	-	-	
1 = 12 °C	Pdh	-	kW	Ti = 12°C	COPd	-		
			1.5.67	~	0001		-	
j = bivalent temperature	Pdh	-	kW	Tj = bivalent temperature	COPd	-	-	
j = bivalent_temperature j = operating limit temperature	Pdh	-	kW	Tj = bivalent_temperature Tj = operating limit temperature	COPd	-	-	
j = bivalent_temperature j = operating limit temperature				Tj = bivalent temperature		+	-	
j = bivalent_temperature j = operating limit temperature j =-15°C	Pdh	-	kW	Tj = bivalent_temperature Tj = operating limit temperature	COPd	-	-	
j = bivalent temperature j = operating limit temperature j =-15°C Bivalent temperature	Pdh	-	kW kW °C	Tj = bivalent temperature Tj = operating limit temperature Tj =-15°C	COPd	-	- - - C	
j = bivalent temperature j = operating limit temperature j =-15°C Bivalent temperature leating (Average) leating (Warmer)	Pdh Pdh	-	kW kW °C °C	Tj = bivalent temperature Tj = operating limit temperature Tj =-15°C Operating limit temperature Heating (Average) Heating (Warmer)	COPd COPd	-	- - - - - - - - - - - - - - - - - - -	
= bivalent temperature = operating limit temperature =-15°C ivalent temperature eating (Average) eating (Warmer)	Pdh Pdh Tbiv	7	kW kW °C	Tj = bivalent temperature Tj = operating limit temperature Tj =-15°C Operating limit temperature Heating (Average)	COPd COPd Tol		- - - C	
j = bivalent temperature j = operating limit temperature j =-15°C <b>Sivalent temperature</b> leating (Average) leating (Warmer) leating (Colder)	Pdh Pdh Tbiv Tbiv	- - -7 2	kW kW °C °C	Tj = bivalent temperature         Tj = operating limit temperature         Tj =-15°C         Operating limit temperature         Heating (Average)         Heating (Warmer)         Heating (Colder)         Efficiency of cycling	COPd COPd Tol Tol		- - - - - - - - - - - - - - - - - - -	
j = bivalent temperature j = operating limit temperature j =-15°C Bivalent temperature leating (Average) leating (Warmer) leating (Colder)	Pdh Pdh Tbiv Tbiv Tbiv Pcycc	- - -7 2	kW kW °C °C	Tj = bivalent temperature Tj = operating limit temperature Tj =-15°C Operating limit temperature Heating (Average) Heating (Warmer) Heating (Colder)	COPd COPd Tol Tol		- - - - - - - - - - - - - - - - - - -	
j = bivalent temperature j = operating limit temperature j =-15°C Bivalent temperature leating (Average) leating (Warmer) leating (Colder) Power consumption of cycling Cooling	Pdh Pdh Tbiv Tbiv Tbiv		kW kW °C °C °C	Tj = bivalent temperature         Tj = operating limit temperature         Tj =-15°C         Operating limit temperature         Heating (Average)         Heating (Warmer)         Heating (Colder)         Efficiency of cycling	COPd COPd Tol Tol Tol		- - - - - - - - - - - - - - - - - - -	
j = bivalent temperature j = operating limit temperature j =-15°C Bivalent temperature leating (Average) leating (Warmer) leating (Colder) Power consumption of cycling cooling leating	Pdh Pdh Tbiv Tbiv Tbiv Pcycc		kW kW °C °C °C kW	Tj = bivalent temperature Tj = operating limit temperature Tj =-15°C Operating limit temperature Heating (Average) Heating (Warmer) Heating (Colder) Efficiency of cycling Cooling	COPd COPd Tol Tol Tol EERcyc		- - - - - - - - - - - - - - - - - - -	
j = bivalent temperature j = operating limit temperature j =-15°C Bivalent temperature leating (Average) leating (Warmer) leating (Colder) Power consumption of cycling Cooling leating Degradation coefficient cooling(**)	Pdh Pdh Tbiv Tbiv Tbiv Pcycc Pcych Cdc	7 -7 2 - - na na 0,25	kW kW °C °C °C kW kW	Tj = bivalent temperature Tj = operating limit temperature Tj =-15°C Operating limit temperature Heating (Average) Heating (Warmer) Heating (Colder) Efficiency of cycling Cooling Heating	COPd COPd Tol Tol Tol EERcyc COPcyc		- - - - - - - - - - - - - - - - - - -	
j = bivalent temperature j = operating limit temperature j =-15°C Bivalent temperature leating (Average) leating (Warmer) leating (Colder) Power consumption of cycling Cooling leating Degradation coefficient cooling(**) Electric power input in power mo	Pdh Pdh Tbiv Tbiv Tbiv Pcycc Pcych Cdc	7 -7 2 - - na na 0,25	kW kW °C °C °C kW kW	Tj = bivalent temperature Tj = operating limit temperature Tj =-15°C Operating limit temperature Heating (Average) Heating (Warmer) Heating (Colder) Efficiency of cycling Cooling Heating Degradation coefficient heating(**)	COPd COPd Tol Tol Tol EERcyc COPcyc		- - - - - - - - - - - - - - - - - - -	
= bivalent temperature     = operating limit temperature     =-15°C      ivalent temperature     eating (Average)     eating (Warmer)     eating (Colder)      ower consumption of cycling     ooling     eating     egradation coefficient cooling(**)  lectric power input in power mo	Pdh Pdh Tbiv Tbiv Tbiv Div Pcycc Pcych Cdc Cdc Cdc PorF		kW kW °C °C °C °C kW kW	Tj = bivalent temperature         Tj = operating limit temperature         Tj =-15°C         Operating limit temperature         Heating (Average)         Heating (Warmer)         Heating (Colder)         Efficiency of cycling         Cooling         Heating         Degradation coefficient heating(**)         Seasonal electricity consumption	COPd COPd Tol Tol Tol EERcyc COPcyc Cdh		- - - - - - - -	
= bivalent temperature     = operating limit temperature     =-15°C      ivalent temperature     eating (Average)     eating (Warmer)     eating (Colder)      ower consumption of cycling     ooling     eating     egradation coefficient cooling(**)  lectric power input in power mo  iff mode tandby mode	Pdh Pdh Tbiv Tbiv Tbiv Tbiv Pcycc Pcych Cdc Cdc Cdc Porff PSB	-7 -7 2 - - - - - - - - - - - - - - - -	kW kW °C °C °C °C kW kW kW - W W	Tj = bivalent temperature         Tj = operating limit temperature         Tj =-15°C         Operating limit temperature         Heating (Average)         Heating (Warmer)         Heating (Colder)         Efficiency of cycling         Cooling         Heating         Degradation coefficient heating(**)         Seasonal electricity consumption         Cooling         Heating (Average)(-10°C)	COPd COPd Tol Tol Tol Tol EERcyc COPcyc COPcyc Cdh		- - - - - - - - - - - - - - - - -	
= bivalent temperature     = operating limit temperature     =-15°C      ivalent temperature     eating (Average)     eating (Warmer)     eating (Colder)      ower consumption of cycling     ooling     eating     egradation coefficient cooling(**)  lectric power input in power mo  iff mode tandby mode hermostat-off mode	Pdh Pdh Tbiv Tbiv Tbiv Div Pcycc Pcych Cdc Cdc Cdc PorF PsB PTO	-7 -7 2 - - - - - - - - - - - - - - - -	kW kW °C °C °C °C kW kW kW - W W W	Tj = bivalent temperature         Tj = operating limit temperature         Tj =-15°C         Operating limit temperature         Heating (Average)         Heating (Warmer)         Heating (Colder)         Efficiency of cycling         Cooling         Heating         Degradation coefficient heating(**)         Seasonal electricity consumption         Cooling         Heating (Average)(-10°C)         Heating (Warmer)(+2°C)	COPd           COPd           Tol           Tol           Tol           COPcyc           COPcyc           Cdh           Q <sub>CE</sub> Q <sub>HE</sub> /A           Q <sub>HE</sub> /W		- - - - - - - - - - - - - - - - - - -	
j = bivalent temperature j = operating limit temperature j =-15°C <b>Sivalent temperature</b> leating (Average) leating (Warmer) leating (Colder) <b>Sower consumption of cycling</b> cooling leating lea	Pdh Pdh Tbiv Tbiv Tbiv Tbiv Pcycc Pcych Cdc Cdc Cdc Porff PSB	-7 -7 2 - - - - - - - - - - - - - - - -	kW kW °C °C °C °C kW kW kW - W W	Tj = bivalent temperature         Tj = operating limit temperature         Tj =-15°C         Operating limit temperature         Heating (Average)         Heating (Warmer)         Heating (Colder)         Efficiency of cycling         Cooling         Heating         Degradation coefficient heating(**)         Seasonal electricity consumption         Cooling         Heating (Average)(-10°C)	COPd COPd Tol Tol Tol Tol EERcyc COPcyc COPcyc Cdh		- - - - - - - - - - - - - - - - -	
j = bivalent temperature j = operating limit temperature j =-15°C Bivalent temperature leating (Average) leating (Warmer) leating (Colder) Power consumption of cycling Cooling leating Degradation coefficient cooling(**) Electric power input in power mo Dif mode Standby mode hermostat-off mode Crankcase heater mode Capacity control type	Pdh Pdh Tbiv Tbiv Tbiv Div Pcycc Pcych Cdc Cdc Cdc PorF PsB PTO	7 -7 2 - - na na 0,25 ive mode" 0,002036 0,002036 0,00252/0,02513 0	kW kW °C °C °C °C kW kW kW - W W W	Tj = bivalent temperature         Tj = operating limit temperature         Tj =-15°C         Operating limit temperature         Heating (Average)         Heating (Warmer)         Heating (Colder)         Efficiency of cycling         Cooling         Heating         Degradation coefficient heating(**)         Seasonal electricity consumption         Cooling         Heating (Average)(-10°C)         Heating (Colder)(+2°C)         Heating (Colder)(-22°C)         Other items	COPd           COPd           COPd           Tol           Tol           Tol           COPcyc           Cdh           Q <sub>CE</sub> Q <sub>HE</sub> /A           Q <sub>HE</sub> /C		- - - - - - - - - - - - - - - - - - -	
j = bivalent temperature         j = operating limit temperature         j =-15°C         Bivalent temperature         leating (Average)         leating (Warmer)         leating (Colder)         Power consumption of cycling         Cooling         leating         Degradation coefficient cooling(**)         Electric power input in power mode         Standby mode         'hermostat-off mode         Crankcase heater mode         Capacity control type         ixed	Pdh Pdh Tbiv Tbiv Tbiv Div Pcycc Pcych Cdc Cdc Cdc PorF PsB PTO	7 -7 -2  - - - - - - - - - - - - - -	kW kW °C °C °C °C kW kW kW - W W W	Tj = bivalent temperature         Tj = operating limit temperature         Tj =-15°C         Operating limit temperature         Heating (Average)         Heating (Warmer)         Heating (Colder)         Efficiency of cycling         Cooling         Heating         Degradation coefficient heating(**)         Seasonal electricity consumption         Cooling         Heating (Average)(-10°C)         Heating (Colder)(+2°C)         Heating (Colder)(-22°C)         Other items         Sound power level (indoor/outdoor)	COPd           COPd           Tol           Tol           Tol           COPcyc           COPcyc           Cdh           Q <sub>CE</sub> Q <sub>HE</sub> /A           Q <sub>HE</sub> /W		- - - - - - - - - - - - - - - - - - -	
j = bivalent temperature j = operating limit temperature j =-15°C Bivalent temperature leating (Average) leating (Warmer) leating (Colder) Power consumption of cycling Biooling leating Degradation coefficient cooling(**) Biooling leating Degradation coefficient cooling(**) Biooling leating Degradation coefficient cooling(**) Biooling Bi	Pdh Pdh Tbiv Tbiv Tbiv Div Pcycc Pcych Cdc Cdc Cdc PorF PsB PTO	-7 2 -7 2 - - - - - - - - - - - - - - -	kW kW °C °C °C °C kW kW kW - W W W	Tj = bivalent temperature         Tj = operating limit temperature         Tj =.15°C         Operating limit temperature         Heating (Average)         Heating (Warmer)         Heating (Colder)         Efficiency of cycling         Cooling         Heating (Average)         Heating         Degradation coefficient heating(**)         Seasonal electricity consumption         Cooling         Heating (Average)(-10°C)         Heating (Warmer)(+2°C)         Heating (Colder)(-22°C)         Other items         Sound power level (indoor/outdoor)         Refrigerant type	COPd           COPd           COPd           Tol           Tol           Tol           COPcyc           Cdh           Q <sub>CE</sub> Q <sub>HE</sub> /A           Q <sub>HE</sub> /C           Lwa	-10 -10 2 - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	
i       = bivalent temperature         i       = operating limit temperature         i       =-15°C         Bivalent temperature         leating (Average)         leating (Warmer)         leating (Colder)         Power consumption of cycling         Booling         leating         Degradation coefficient cooling(**)         Electric power input in power mode         Standby mode         Thermostat-off mode         Crankcase heater mode         Capacity control type         Tixed	Pdh Pdh Tbiv Tbiv Tbiv Div Pcycc Pcych Cdc Cdc Cdc PorF PsB PTO	7 -7 -2  - - - - - - - - - - - - - -	kW kW °C °C °C °C kW kW kW - W W W	Tj = bivalent temperature         Tj = operating limit temperature         Tj =-15°C         Operating limit temperature         Heating (Average)         Heating (Warmer)         Heating (Colder)         Efficiency of cycling         Cooling         Heating         Degradation coefficient heating(**)         Seasonal electricity consumption         Cooling         Heating (Warmer)(+2°C)         Heating (Colder)(-22°C)         Other items         Sound power level (indoor/outdoor)         Refrigerant type         Global warming potential	COPd           COPd           COPd           Tol           Tol           Tol           COPcyc           Cdh           Q <sub>CE</sub> Q <sub>HE</sub> /A           Q <sub>HE</sub> /C	-10 -10 2 -10 2 -10 2 -10 2 -10 -10 -10 -10 -10 -10 -10 -10	- - - - - - - - - - - - - - - - - - -	
j = bivalent temperature         j = operating limit temperature         j = operating limit temperature         j = operating limit temperature         deating (Average)         deating (Warmer)         deating (Colder)         Power consumption of cycling         Cooling         deating         Degradation coefficient cooling(**)         Electric power input in power mo         Off mode         Standby mode         Thermostat-off mode         Crankcase heater mode         Capacity control type         Fixed         Staged	Pdh Pdh Tbiv Tbiv Tbiv Div Pcycc Pcych Cdc Cdc Cdc PorF PsB PTO	-7 2 -7 2 - - - - - - - - - - - - - - -	kW kW °C °C °C °C kW kW kW - W W W	Tj = bivalent temperature         Tj = operating limit temperature         Tj =.15°C         Operating limit temperature         Heating (Average)         Heating (Warmer)         Heating (Colder)         Efficiency of cycling         Cooling         Heating (Average)         Heating         Degradation coefficient heating(**)         Seasonal electricity consumption         Cooling         Heating (Average)(-10°C)         Heating (Warmer)(+2°C)         Heating (Colder)(-22°C)         Other items         Sound power level (indoor/outdoor)         Refrigerant type	COPd           COPd           COPd           Tol           Tol           Tol           COPcyc           Cdh           Q <sub>CE</sub> Q <sub>HE</sub> /A           Q <sub>HE</sub> /A           Q <sub>HE</sub> /C           L <sub>WA</sub> GWP	-10 2 -10 2 -10 2 -10 2 -10 2 -10 -10 2 -10 -10 -10 -10 -10 -10 -10 -10	- - - - - - - - - - - - - - - - - - -	

(5) For multisplit appliances, data shall be provided at a Capacity ratio of 1.

(\*\*) If default Cd= 0,25 is chosen, then results from cycling tests are not required. Otherwise either the heating or cooling cycling test value is required



# **Product Fiche**

Model: ECOLIGHT PLUS 18000 UE / ECOLIGHT PLUS 18000 UI

Manufacturer : ARGOCLIMA SPA - via Alfeno Varo, 35 - Alfianello (BS) - Italy;

Sound power level (indoor unit / outdoor unit): 58 / 63 dB(A);

### Refrigerant: R32

Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

## Cooling mode

SEER: 6,4 Energy efficiency class: A++ Pdesignc: 4,6 kW

Annual electricity consumption 251 kWh per year, based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

Heating mode Climate type: Warmer / Average SCOP: 5,1 / 4,0 Energy efficiency class: A+++/A+ Pdesignh: 3,6 / 3,7 kW Declared capacity: 3,6 / 3,5 kW

The back up heating capacity for SCOP calculation: 0 / 0,2 kW.

Annual electricity consumption **988** / **1295** kWh per year, based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.